

IN THE CLAIMS:

Please amend the claims in accordance with the following listing of the claims.

This claim listing replaces and supersedes all prior claim listings.

1. (Cancelled).
2. (Current Amended) A radio transmission device according to ~~Claim 1~~,
additionally comprising: for transmitting data through a radio line, comprising:
data inputting means for inputting transmission data;
input data storing means for storing the inputted transmission data temporarily;
data compression means for reading data from the data storing means to compress
the data;
data transmitting means for transmitting the compressed data through the radio
line; and
throughput judging means for judging throughput in the radio line.
3. (Original) A radio transmission device according to Claim 2, wherein:
said input data storing means is comprised of a memory that operates using a first-in first-out method; and
said throughput judging means judges throughput according to a difference between a data writing location and a data reading location of the input data storing means.
4. (Cancelled).

5. (Current Amended) A radio transmission device according to Claim [[1,]] 2, additionally comprising:

~~throughput judging means for judging throughput in the radio line; and~~
compression rate control means for controlling a data compression rate in the data compression means according to the judged throughput.

6. (Original) A radio transmission device according to Claim 5, wherein:

said compression rate control means increases a data compression rate with a decrease in throughput, and decreases the data compression rate with recovery of the throughput.

7. (Currently Amended) A radio transmission device ~~according to Claim 1,~~ additionally comprising: for transmitting data through a radio line, comprising:

data inputting means for inputting transmission data;
input data storing means for storing the inputted transmission data temporarily;
data compression means for reading data from the data storing means to compress
the data;

data transmitting means for transmitting the compressed data through the radio
line; and

input speed control means for controlling data input speed in the data inputting means.

8. (Currently Amended) A radio transmission device according to Claim [[1,]] 2,
additionally comprising:

~~throughput judging means for judging throughput in the radio line; and~~
input speed control means for controlling data input speed in the data inputting
means according to the judged throughput.

9. (Original) A radio transmission device according to Claim 8, wherein:
said input speed control means decreases data input speed with a decrease in
throughput, and increases the data input speed with recovery of the throughput.

10. (Currently Amended) A radio transmission device ~~according to Claim 1,~~
~~wherein:~~ for transmitting data through a radio line, comprising:

data inputting means for inputting transmission data;
input data storing means for storing the inputted transmission data temporarily;
data compression means for reading data from the data storing means to compress
the data;
data transmitting means for transmitting the compressed data through the radio
line; and

 said data transmitting means performs best-effort-type packet transmission, which
 responds to a retransmission request.

11. (Cancelled).

12. (Cancelled).

13. (Currently Amended) A radio transmission method ~~according to Claim 12,~~
~~additionally comprising the step of: for transmitting data through a radio line, comprising~~
~~the steps of:~~

a data inputting step for inputting transmission data;

an input data storing step for storing the inputted transmission data temporarily;

a data compression step for reading data from the data storing means to compress
the data;

a data transmitting step for transmitting the compressed data through the radio
line; and

a throughput judging step for judging throughput in the radio line.

14. (Original) A radio transmission method according to Claim 13, wherein:
in the input data storing step, data is written and read by means of a first-in first-out method; and
in the throughput judging step, throughput is judged according to a difference between a data writing location and a data reading location of the input data storing step.

15. (Cancelled).

16. (Currently Amended) A radio transmission method according to Claim [[12,]]
13, additionally comprising the ~~steps~~ step of:

~~a throughput judging step for judging throughput in the radio line; and~~

a compression rate control step for controlling a data compression rate in the data

compression step according to the judged throughput.

17. (Original) A radio transmission method according to Claim 16, wherein:
in the compression rate control step, a data compression rate is increased with a decrease in throughput, and the data compression rate is decreased with recovery of the throughput.

18. (Currently Amended) A radio transmission method ~~according to Claim 12,~~
~~additionally comprising the step of: for transmitting data through a radio line, comprising~~
~~the steps of:~~

a data inputting step for inputting transmission data;
an input data storing step for storing the inputted transmission data temporarily;
a data compression step for reading data from the data storing means to compress
the data;

a data transmitting step for transmitting the compressed data through the radio
line; and

an input speed control step for controlling data input speed in the data inputting step.

19. (Currently Amended) A radio transmission method according to Claim [[12,]]
13, additionally comprising the steps step of:

a throughput judging step for judging throughput in the radio line; and
an input speed control step for controlling data input speed in the data inputting

step according to the judged throughput.

20. (Original) A radio transmission method according to Claim 19, wherein:
in the input speed control step, data input speed is decreased with a decrease in
throughput, and the data input speed is increased with recovery of the throughput.

21. (Currently Amended) A radio transmission method ~~according to Claim 12,~~
~~wherein:~~ for transmitting data through a radio line, comprising the steps of:

a data inputting step for inputting transmission data;
an input data storing step for storing the inputted transmission data temporarily;
a data compression step for reading data from the data storing means to compress
the data;
a data transmitting step for transmitting the compressed data through the radio
line; and

in the data transmitting step, best-effort-type packet transmission, which responds
to a retransmission request, is performed.

22. (Cancelled).

23. (Cancelled).

24. (Currently Amended) A radio receiving device ~~according to Claim 23,~~
~~additionally comprising:~~ for receiving data through a radio line, comprising:

data receiving means for receiving compressed data through the radio line;
data decompressing means for decompressing the received data;

output data storing means for storing the decompressed data temporarily;
data outputting means for reading data from the output data storing means to
output the data; and
throughput judging means for judging throughput in the radio line.

25. (Original) A radio receiving device according to Claim 24, wherein:
said output data storing means is comprised of a memory that operates using a
first-in first-out method; and
said throughput judging means judges throughput according to a difference
between a data writing location and a data reading location of the output data storing
means.

26. (Cancelled).

27. (Currently Amended) A radio receiving device ~~according to Claim 23,~~
~~additionally comprising:~~ for receiving data through a radio line, comprising:
data receiving means for receiving compressed data through the radio line;
data decompressing means for decompressing the received data;
output data storing means for storing the decompressed data temporarily;
data outputting means for reading data from the output data storing means to
output the data; and
output speed control means for controlling data output speed in the data
outputting means.

28. (Original) A radio receiving device according to Claim 27, wherein:

 said data outputting means records data, which has been read from the output data storing means, on a given storage medium; and

 said output speed control means controls data recording speed for recording on the storage medium.

29. (Currently Amended) A radio receiving device according to Claim [[23,]] 24, additionally comprising:

~~throughput judging means for judging throughput in the radio line; and~~

 output speed control means for controlling data output speed in the data outputting means according to the judged throughput.

30. (Original) A radio receiving device according to Claim 29, wherein:

 said output speed control means decreases data output speed with a decrease in throughput, and increases the data output speed with recovery of the throughput.

31. (Currently Amended) A radio receiving device ~~according to Claim 23,~~ wherein: for receiving data through a radio line, comprising:

data receiving means for receiving compressed data through the radio line;

data decompressing means for decompressing the received data;

output data storing means for storing the decompressed data temporarily;

data outputting means for reading data from the output data storing means to output the data; and

said data receiving means performs best-effort-type packet transmission that issues a retransmission request in response to occurrence of a packet receiving error.

32. (Cancelled).

33. (Cancelled).

34. (Currently Amended) A radio receiving method ~~according to Claim 33,~~ ~~additionally comprising the step of: receiving data through a radio line, comprising the steps of:~~

a data receiving step for receiving compressed data through the radio line;
a data decompressing step for decompressing the received data;
an output data storing step for storing the decompressed data temporarily;
a data outputting step for reading data, which has been stored temporarily, to
output the data; and
a throughput judging step for judging throughput in the radio line.

35. (Original) A radio receiving method according to Claim 34, wherein:
in the output data storing step, data is stored by means of a first-in first-out method; and
in the throughput judging step, throughput is judged according to a difference between a data writing location and a data reading location of the output data storing step.

36. (Cancelled).

37. (Currently Amended) A radio receiving method ~~according to Claim 33,~~
~~additionally comprising the step of: receiving data through a radio line, comprising the~~
~~steps of:~~

a data receiving step for receiving compressed data through the radio line;
a data decompressing step for decompressing the received data;
an output data storing step for storing the decompressed data temporarily;
a data outputting step for reading data, which has been stored temporarily, to
output the data; and
an output speed control step for controlling data output speed in the data outputting step.

38. (Original) A radio receiving method according to Claim 37, wherein:
in the data outputting step, data, which has been read in the output data storing step, is recorded on a given storage medium; and
in the output speed control step, data recording speed for recording on the storage medium is controlled.

39. (Currently Amended) A radio receiving method according to Claim [[33,]] 34,
additionally comprising the ~~steps~~ step of:
~~a throughput judging step for judging throughput in the radio line; and~~
an output speed control step for controlling data output speed in the data outputting step according to the judged throughput.

40. (Original) A radio receiving method according to Claim 39, wherein:
in the output speed control step, data output speed is decreased with a decrease in
throughput, and the data output speed is increased with recovery of the throughput.

41. (Currently Amended) A radio receiving method ~~according to Claim 33,~~
~~wherein:~~ receiving data through a radio line, comprising the steps of:
a data receiving step for receiving compressed data through the radio line;
a data decompressing step for decompressing the received data;
an output data storing step for storing the decompressed data temporarily;
a data outputting step for reading data, which has been stored temporarily, to
output the data; and

in the data receiving step, best-effort-type packet transmission, which issues a
retransmission request in response to occurrence of a packet receiving error, is
performed.

42. (Cancelled).

43. (Cancelled).

44. (Currently Amended) A radio transmitting/receiving system ~~according to~~
~~Claim 43, additionally comprising:~~ for transmitting data through a radio line, comprising:
a radio transmission unit comprising:
data inputting means for inputting transmission data;
input data storing means for storing the inputted transmission data temporarily by
means of a first-in first-out method;

data compression means for reading data from the data storing means to compress the data; and

data transmitting means for transmitting the compressed data through the radio line;

a radio receiving unit comprising:

data receiving means for receiving transmission data through the radio line;

data decompressing means for decompressing the received data;

output data storing means for storing the decompressed data temporarily by means of a first-in first-out method;

data outputting means for reading data from the output data storing means to output the data; and

throughput judging means for judging throughput in the radio line according to a difference between a data writing location and a data reading location of the input data storing means and/or the output data storing means.

45. (Currently Amended) A radio transmitting/receiving system ~~according to~~ ~~Claim 43, additionally comprising:~~ for transmitting data through a radio line, comprising:

a radio transmission unit comprising:

data inputting means for inputting transmission data;

input data storing means for storing the inputted transmission data temporarily by means of a first-in first-out method;

data compression means for reading data from the data storing means to compress the data; and

data transmitting means for transmitting the compressed data through the radio line;

a radio receiving unit comprising:

data receiving means for receiving transmission data through the radio line;

data decompressing means for decompressing the received data;

output data storing means for storing the decompressed data temporarily by means of a first-in first-out method;

data outputting means for reading data from the output data storing means to output the data; and

throughput judging means for judging throughput in the radio line;

compression rate control means for controlling a data compression rate in the data compression means according to throughput in the radio line; and

compression rate notifying means for notifying the radio receiving unit of a compression rate parameter that has been used in the data compression means;

wherein:

said data decompressing means performs data decompression processing according to the notified compression rate parameter.

46. (Currently Amended) A radio transmitting/receiving system according to Claim 43, wherein: for transmitting data through a radio line, comprising:

a radio transmission unit comprising:

data inputting means for inputting transmission data;

input data storing means for storing the inputted transmission data temporarily by

means of a first-in first-out method;

data compression means for reading data from the data storing means to compress the data; and

data transmitting means for transmitting the compressed data through the radio line;

a radio receiving unit comprising:

data receiving means for receiving transmission data through the radio line;

data decompressing means for decompressing the received data;

output data storing means for storing the decompressed data temporarily by means of a first-in first-out method;

data outputting means for reading data from the output data storing means to output the data; and

 said compression rate control means increases a data compression rate with a decrease in throughput, and decreases the data compression rate with recovery of the throughput.

47. (Currently Amended) A radio transmitting/receiving system ~~according to~~ ~~Claim 43, additionally comprising:~~ for transmitting data through a radio line, comprising:

a radio transmission unit comprising:

data inputting means for inputting transmission data;

input data storing means for storing the inputted transmission data temporarily by means of a first-in first-out method;

data compression means for reading data from the data storing means to compress

the data; and

data transmitting means for transmitting the compressed data through the radio line;

a radio receiving unit comprising:

data receiving means for receiving transmission data through the radio line;

data decompressing means for decompressing the received data;

output data storing means for storing the decompressed data temporarily by means of a first-in first-out method;

data outputting means for reading data from the output data storing means to output the data; and

throughput judging means for judging throughput in the radio line; and

input speed control means for controlling data input speed in the data inputting means according to throughput in the radio line.

48. (Original) A radio transmitting/receiving system according to Claim 47, wherein:

 said input speed control means decreases data input speed with a decrease in throughput, and increases the data input speed with recovery of the throughput.

49. (Currently Amended) A radio transmitting/receiving system ~~according to~~ ~~Claim 43, additionally comprising:~~ for transmitting data through a radio line, comprising:

a radio transmission unit comprising:

data inputting means for inputting transmission data;

input data storing means for storing the inputted transmission data temporarily by means of a first-in first-out method;

data compression means for reading data from the data storing means to compress the data; and

data transmitting means for transmitting the compressed data through the radio line;

a radio receiving unit comprising:

data receiving means for receiving transmission data through the radio line;

data decompressing means for decompressing the received data;

output data storing means for storing the decompressed data temporarily by means of a first-in first-out method;

data outputting means for reading data from the output data storing means to output the data; and

throughput judging means for judging throughput in the radio line; and

output speed control means for controlling data output speed in the data outputting means according to the judged throughput.

50. (Original) A radio transmitting/receiving system according to Claim 49, wherein:

said output speed control means decreases data output speed with a decrease in throughput, and increases the data output speed with recovery of the throughput.

51. (Currently Amended) A radio transmitting/receiving system ~~according to~~ to
Claim 43, wherein: for transmitting data through a radio line, comprising:

a radio transmission unit comprising:
data inputting means for inputting transmission data;
input data storing means for storing the inputted transmission data temporarily by
means of a first-in first-out method;
data compression means for reading data from the data storing means to compress
the data; and
data transmitting means for transmitting the compressed data through the radio
line;
a radio receiving unit comprising:
data receiving means for receiving transmission data through the radio line;
data decompressing means for decompressing the received data;
output data storing means for storing the decompressed data temporarily by
means of a first-in first-out method;
data outputting means for reading data from the output data storing means to
output the data; and
said data transmitting means and said data receiving means perform best-effort-
type packet transmission, by which retransmission is controlled in response to occurrence
of a transmission data error.

52. (Cancelled).